## UTAH DIVISION OF AIR QUALITY MODIFIED SOURCE PLAN REVIEW

MODIFI		
S. Gale Chapman, President	Project Code: N0327-008	
Intermountain Power Service Corporation		
850 West Brush Wellman Road		
Delta, Utah 84624		
RE:	Intermountain Generating Station DAQE-523-01 Amendment to Add	
	Inadvertently Missed Data	
	Millard County, Utah CDS-A, ATT, Title V, Title IV, NSPS	
REVIEW ENGINEER:	Milka M. Radulovic	
DATE:	August 9, 2001	
NOTICE OF INTENT SUBMITTED:	August 3, 2001	
PLANT CONTACT:	Rand Crafts	
PHONE NUMBERS:	(435) 864-6494	
FAX NUMBER:	(435) 864-0994	
SOURCE LOCATION:	850 West Brush Wellman Road Delta, Millard County, Utah	
UTM COORDINATES:	4,374.4 km Northing, 364.2 km Easting, Zone 12	
OTM COOKDINATES.	datum NAD27	
ADDD OXIAL C.	datum NAD21	
APPROVALS:		
Peer Engineer	Nando Meli	
DAQ requests that a company/corporation	on official read the attached draft/proposed Plan Review with	
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## TYPE OF IMPACT AREA

#### Abstract

Intermountain Power Service Corporation (IPSC) operates the Intermountain Generating Station (IGS) coal fired steam-electric plant, consisting of two 875 MW units, that is located near Delta in Millard County. IPSC is requesting an amendment to their current Approval Order (AO) DAQE-523-01 to correct the consolidated AO. The amendments were approved in previous AOs and were inadvertently missed during the AO consolidation process. IGS was approved to spray their coal with self-generated used oil for energy recovery and this condition was not included in the consolidated AO. Additionally the following was not included in the AO:

- -A "30-day rolling average" for the NO<sub>x</sub> and SO<sub>2</sub> testing limits was added;
- -The consumption limit language for the auxiliary boiler was changed to require records for "when the auxiliary boiler is in operation" instead of "when the plant is in operation";
- -Dust control condition language was changed to reflect that IPSC has already submitted a dust control plan, and
- -The language was added that allows bituminous and subbituminous coals as a fuel in the  $8,500 \times 10^6$  Btu/hr boilers along with diesel fuel or natural gas as fuels during start-ups, shutdowns, upsets and flame stabilization.

Millard County is an attainment area of the National Ambient Air Quality Standards for all pollutants. New Source Performance Standards, Subparts Da and Y apply to this source. Boiler 1 & 2 are also Group 1, Phase II units under the Acid Rain Program. IPSC is a major source of NOx, SO2, CO, and PM10. Title V of the 1990 Clean Air Act applies to this source. The Title V permit will be administratively amended after this AO has been issued.

#### Newspaper Notice

These amendments were previously approved in previous AOs. Therefore, there will be no public comment period for these amendments and a newspaper notice will not be required.

### I. DESCRIPTION OF PROPOSAL

Intermountain Power Service Corporation (IPSC) operates the Intermountain Generating Station (IGS) coal fired steam-electric plant, consisting of two 875 MW units, that is located near Delta in Millard County. IPSC is requesting an amendment to their current approval order (AO) DAQE-523-01 to correct inadvertently missed data in the process of AO consolidation:

- 1. Add missing language that coal may be sprayed with "self-generated used oil for energy recovery" for combustion (data from AO BAQE-672-89, Condition #4)
- 2. Add missing language in the Condition # 9 "30-day rolling average" for the  $NO_x$  and  $SO_2$  testing limits (from the NSPS, Subpart Da)
- 3. Replace language in the Condition 11 from "for all periods when plant is in operation" with "for all periods when auxiliary boiler is in operation".
- 4. Correct the language in the Condition #14 to reflect the fact that the IPSC has submitted dust control plan.

5. Add the missing language to show that bituminous and subbituminous coals are allowed as a fuel in the  $8,500 \times 10^6$  Btu/hr boilers along with diesel fuel or natural gas fuels which are allowed during the start-ups, shutdowns, upsets and flame stabilization conditions (data from DAQE-028-97, BAQE-672-89, DAQE-009-97).

## II. EMISSION SUMMARY

The emissions from the entire plant will be as follows:

Pollutant		Emissions s/year	Emission Increases tons/year	Total Emissions tons/year
$PM_{10}$	248	3.88	0.00	248.88
SO <sub>2</sub>		3.32	0.00	3,698.32
	24,178			
	1,312			
VOC		1.29	0.00	14.29
HAPs		2.67	0.00	82.67

### III, BEST AVAILABLE CONTROL TECHNOLOGY (BACT) ANALYSIS

BACT applies to each emission point. BACT analysis performed in the previous engineering reviews apply to the equipment in this AO.

# IV. <u>APPLICABILITY OF FEDERAL REGULATIONS AND UTAH ADMINISTRATIVE CODES (UAC)</u>

The Notice of Intent submitted is for an existing source. It is not a new major source or a major modification. At the time of this review the Utah Administrative Code Rules 307 (UAC R307) and federal regulations have been examined to determine their applicability to this Notice of Intent.

Since this project is defined as an amendment the applicability of federal regulations and Utah administrative codes review were not required.

#### V. RECOMMENDED APPROVAL ORDER CONDITIONS

#### General Conditions:

This Approval Order (AO) applies to the following company: 1.

> Intermountain Power Service Corporation 850 West Brush Wellman Road Delta, Utah 84624

Phone Number: (435) 864-4414 (435) 864-4970 Fax Number:

The equipment listed below in this AO shall be operated at the following location:

#### PLANT LOCATION:

850 West Brush Wellman Road, Delta, Millard County, Utah

Universal Transverse Mercator (UTM) Coordinate System: datum NAD27 4,374.4 kilometers Northing, 364.2 kilometers Easting, Zone 12

- All definitions, terms, abbreviations, and references used in this AO conform to those 2. used in the Utah Administrative Code (UAC) Rule 307 (R307), and Title 40 of the Code of Federal Regulations (40 CFR). Unless noted otherwise, references cited in these AO conditions refer to those rules.
- The limits set forth in this AO shall not be exceeded without prior approval in 3. accordance with R307-401.
- Modifications to the equipment or processes approved by this AO that could affect the 4. emissions covered by this AO must be approved in accordance with R307-401-1.
- All records referenced in this AO or in applicable NSPS, which are required to be kept 5. by the owner/operator, shall be made available to the Executive Secretary or Executive Secretary's representative upon request, and the records shall include the two-year period prior to the date of the request. All records shall be kept for the following minimum periods:

All Records Five years A.

Five years from the due date of each emission statement Emission inventories В.

or until the next inventory is due, whichever is longer.

Intermountain Power Service Corporation (IPSC) shall conduct its operations of the 6. Intermountain Generating Station (IGS) coal fired electric steam plant in accordance with the terms and conditions of this AO, which was written pursuant to IPSC's Notice

of Intent submitted to the Division of Air Quality (DAQ) on August 3, 2001.

- 7. This AO shall replace the AO (DAQE-523-01) dated June 28, 2001.
- 8. The approved installations shall consist of the following equipment or equivalent\*:
  - A. Unit #1 Coal Fired Boiler (Subject to NSPS, Subpart Da)
    Rating 8,500 x 10<sup>6</sup> Btu/hr (MMBtu/hr)
  - B. Unit #2 Coal Fired Boiler (Subject to NSPS, Subpart Da)
    Rating 8,500 MMBtu/hr
  - C. Coal railcar unloading dust collector 1A
  - D. Coal railcar unloading dust collector 1B
  - E. Coal railcar unloading dust collector 1C
  - F. Coal railcar unloading dust collector 1D
  - G. Coal truck unloading dust collector 2
  - H. Coal reserve reclaim dust collector 3
  - I. Coal transfer building #1 dust collector 4
  - J. Coal transfer building #2 dust collector 5
  - K. Coal transfer building #4 dust collector 6
  - L. Coal crusher building dust collector 11
  - M. U1 Generation building coal dust collector 13A
  - N. U1 Generation building coal dust collector 13B
  - O. U2 Generation building coal dust collector 14A
  - P. U2 Generation building coal dust collector 14B
  - Q. Coal pile active and reserve
  - R. Coal Stackout
  - S. Fuel oil tank 1A
    - Capacity 675,000 gallons
  - T. Fuel oil tank 1B
    - Capacity 675,000 gallons
  - U. Limestone unloading dust collector 1A
  - V. Limestone unloading dust collector 1B
  - W. Limestone transfer dust collector 1
  - X. Limestone reclaim dust collector 2
  - Y. Limestone silo bin vent filter
  - Z. Limestone crusher dust collector 3
  - AA. Limestone preparation dust collector 4
  - BB. Limestone storage pile
  - CC. Lime silo dust collector 1
  - DD. Lime hopper dust collector 2
  - EE. Soda ash silo dust collector 3
  - FF. Soda ash hopper dust collector 4
  - GG. Fly ash silo bin vent filter 1A
  - HH. Fly ash silo bin vent filter 1B
  - II. Combustion byproducts stackout & stockpile
  - JJ. Combustion byproducts landfill

KK.	Unit 1 cooling tower 1A
LL.	Unit 1 cooling tower 1B
MM.	Unit 2 cooling tower 1A
NN.	Unit 2 cooling tower 1B
00.	Coal sample preparation building dust collector
PP.	Sandblast facility dust collector
QQ.	U1 Generation building vacuum cleaning dust collector
RR.	U2 Generation building vacuum cleaning dust collector
SS.	U1 Fabric filter vacuum cleaning dust collector
TT.	U2 Fabric filter vacuum cleaning dust collector
UU.	GSB vacuum cleaning dust collector
VV.	Guzzler truck dust collector
WW.	Emergency diesel generators
	1A, rated at - 4,000 Hp
	1B, rated at - 4,000 Hp
	1C, rated at - 4,000 Hp
XX.	Solvent washers
YY.	Diesel driven fire pump rated at 290 Hp 1B
ZZ.	Diesel driven fire pump rated at 290 Hp 1C
AAA.	Auxiliary boiler 1A (not subject to NSPS)
	Rating - 166 MMBtu/hr
BBB.	Auxiliary boiler 1B (not subject to NSPS)
	Rating - 166 MMBtu/hr
CCC.	Coal Conveyors
DDD.	Paint booth/shops
EEE.	Engine driven equipment including compressors, generators, hydraulic pumps
	and diesel fire pumps
FFF.	Bulb recycling crusher
GGG.	Laboratory fume hoods
HHH.	Gasoline tank
	Capacity - 500 gallons
III.	Diesel tank
	Capacity - 10,000 gallons
JJJ.	Diesel day tanks
	Capacity - not exceeding 560 gallons per tank
KKK.	Mobile oil storage tanks
	Capacity - not exceeding 12,000 gallons per tank
LLL.	Turbine lube oil units
	Capacity - not exceeding 40,000 gallons per unit
MMM.	Underground storage diesel tank
	Capacity - 20,000 gallons
NNN.	
	Capacity - 6,000 gallons
000.	
	Capacity - 10,000 gallons
PPP.	Class III Industrial Waste Landfill
QQQ.	Paved haul road

RRR. Haul road and access road SSS. Coal truck unloading grating

## **Limitations and Tests Procedures**

9. Emissions to the atmosphere at all times from the indicated emission points shall not exceed the following rates and concentrations:

## Each Main Boiler (Rated at 8,500 x 106 Btu/hr)

Pollutant	<u>lb/ 10<sup>6</sup> Btu heat input</u>
PM <sub>10</sub>	0.020 lb/ 10 <sup>6</sup> Btu heat input based on 30-day roiling-average
SO <sub>2</sub>	0.150 lb/ 10 <sup>6</sup> Btu heat input 10.0 % of the potential combustion
NO <sub>x</sub>	concentration 0.500 lb/ 10 <sup>6</sup> Btu heat input based on 30-day roiling-average

## **Dust Collectors**

Pollutant/Source	grains/dscf
$PM_{10}$	
Rail car unloading (4 units)	0.024 (each unit)
Transfer building one	0.024
Unit one 13A	
Transfer building two	
Transfer building four	
Crusher building one	
Unit one 13B	
Unit two 14A	
Unit two 14B	
Limestone preparation building	

## Each Auxiliary Boiler (Rated at 166 x 106 Btu/hr)

Pollutant	1b/ 10 <sup>6</sup> Btu heat input	<u>lbs/hr</u>
PM <sub>10</sub>	0.10	. 20
	0.69	
NO <sub>x</sub>	0.35	. 58

10. Visible emissions from the following emission points shall not exceed the following

<sup>\*</sup> Equivalency shall be determined by the Executive Secretary.

#### values:

- A. All abrasive blasting 40% opacity
- B. All other points 20% opacity

Opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9.

For sources that are subject to NSPS opacity standards shall be determined by conducting observations in accordance with 40 CFR 60.11(b) and 40 CFR 60, Appendix A, Method 9.

- 11. The following consumption limit shall not be exceeded:
  - A. 50,000 barrels of fuel oil consumed per calendar year in the auxiliary boilers.

To determine compliance with annual limit, the owner/operator shall calculate a total by the January 20th of each year using data from the previous 12 months. Records of consumption shall be kept for all periods when the auxiliary boiler is in operation. Consumption shall be determined by fuel oil totalizer records. The records of consumption shall be kept on a monthly basis.

- 12. The emergency generators shall be operated on an emergency basis only, except for routine engine maintenance and testing. Records documenting generator usage shall be kept in a log and they shall show the date the generator was used, the duration in hours of the of generator usage, and the reason for each generator usage.
- 13. The diesel driven fire pumps shall be operated on an emergency basis only, except for routine engine and fire system maintenance and testing. Records documenting diesel driven fire pump usage shall be kept in a log and they shall show the date the diesel driven fire pump was used, the duration in hours of the of diesel driven fire pump, and the reason for each diesel driven fire pump usage.

## Roads and Fugitive Dust

14. IPSC shall abide by the latest fugitive dust control plan submitted to the Executive Secretary for control of all dust sources associated with the Intermountain Power Generation site.

The haul road length, speed or any other parameter used to calculate emissions shall not be increased above the limits established in the fugitive dust control plan. The haul road speed shall be posted.

15. The facility shall abide by all applicable requirements of R307-R307-205 for Fugitive Emission and Fugitive Dust sources.

#### **Fuels**

- 16. The owner/operator shall combust only bituminous and subbituminous coals as primary fuels and shall only use diesel oil or natural gas during the startup, shutdown, upsets and flame stabilization in the 8,500 x 10<sup>6</sup> Btu/hr boilers. Only No. 2 oil shall be used in 166 x 10<sup>6</sup> Btu/hr boilers. The owner/operator may fuel-blend self-generated used oil with coal at the active coal pile reclaim structure providing that self-generated used oil is not exceeding requirements from 40 CFR-Chapter I-Part 279.11 (Used oil specification).
- 17. The sulfur content of any fuel oil combusted shall not exceed:
  - A. 0.85 lb per x  $10^6$  Btu heat input for fuel oil used in the main boilers.
  - B. 0.58 percent by weight for fuel oil combusted in the auxiliary boilers.

The sulfur content shall be determined by ASTM Method D-4294-89 or approved equivalent. Certification of used oil shall be either by IPSC's own testing or test reports from the fuel oil marketer.

#### Federal Limitations and Requirements

18. In addition to the requirements of this AO, all applicable provisions of 40 CFR 60, New Source Performance Standards (NSPS) Subpart A, 40 CFR 60.1 to 60.18 and Subpart Da, 40 CFR 60.40a to 60.49a (Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978) and Subpart Y, 40 CFR 60.250 to 60.254 (Standards of Performance for Coal Preparation Plants) apply to this installation.

#### Records & Miscellaneous

- 19. At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this Approval Order including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded, and the records shall be maintained for a period of two years.
- 20. The owner/operator shall comply with R307-150 Series. Inventories, Testing and Monitoring.
- 21. The owner/operator shall comply with R307-107. General Requirements: Unavoidable Breakdowns.

The Executive Secretary shall be notified in writing if the company is sold or changes its name.

This AO in no way releases the owner or operator from any liability for compliance with all other applicable federal, state, and local regulations including R307.

A copy of the rules, regulations and/or attachments addressed in this AO may be obtained by contacting the Division of Air Quality. The Utah Administrative Code R307 rules used by DAQ, the Notice of Intent (NOI) guide, and other air quality documents and forms may also be obtained on the Internet at the following web site:

http://www.eq.state.ut.us/eqair/aq\_home.htm

The annual emission estimations below include point source, fugitive emissions, fugitive dust and do not include road dust, tail pipe emissions, grandfathered emissions etc.. These emissions are for the purpose of determining the applicability of Prevention of Significant Deterioration, nonattainment area, maintenance area, and Title V source requirements of the R307. They are not to be used for determining compliance.

The Potential To Emit (PTE) emissions for the IPSC power generation plant are currently calculated at the following values:

	<u>Pollutant</u>	Tons/yr
A.	PM <sub>10</sub>	248.88
В.	SO <sub>2</sub>	3,698.32
C.	NO <sub>x</sub>	
D.	CO	1,312.44
E.	VOC	14.29
F.	HAPs	